

PROJECT 10073 RECORD CARD

1. DATE 30 Apr 58	2. LOCATION Lowry AFB, Colorado	12. CONCLUSIONS	
3. DATE-TIME GROUP Local 2000	4. TYPE OF OBSERVATION □ Ground-Visual □ Air-Visual	<input type="checkbox"/> Was Balloon <input type="checkbox"/> Probably Balloon <input type="checkbox"/> Possibly Balloon <input type="checkbox"/> Was Aircraft <input type="checkbox"/> Probably Aircraft <input type="checkbox"/> Possibly Aircraft <input type="checkbox"/> Was Astronomical <input type="checkbox"/> Probably Astronomical <input type="checkbox"/> Possibly Astronomical <input checked="" type="checkbox"/> Other 1958 Gamma <input type="checkbox"/> Insufficient Data for Evaluation <input type="checkbox"/> Unknown	
5. PHOTOS □ Yes □ No	6. SOURCE Military		
7. LENGTH OF OBSERVATION 3-4 mins	8. NUMBER OF OBJECTS one	9. COURSE NW-SE	11. COMMENTS Rpt sent to Dr. Hynek. One reddish obj appearing in 2 parts. In sight fm 3-4 mins. Traversed 90 deg azimuth in path fm 330 deg to 30 deg. Satellite tracks not available at this date; however, not Explorer or Vanguard, USSR Satellite 1958 Gamma (Launch 26 Mar Decay 23 Jun 58) visible to naked eye. This sighting w/TX & rptd as Satellite. Case evaluated as 1958 Gamma sighting.
10. BRIEF SUMMARY OF SIGHTING Satellite-type vehicle. One obj which appeared in two parts or at least two sections of differing reflectivity. Leading section comparable to third or fourth mag star. Trailing part was much brighter, in the order of a second mag star. No apparent tumbling motion. Size could not be estimated because of great distance. Judging by reflectivity obj must be of a size comparable to or larger than Sputnik II.			

does not apply to the real moon, but represents an average. In 1818 and 1845, for example, the full moon came on Easter day, and caused considerable questioning from those who thought the rule applied to the body they saw in the sky.

First Eclipse of 1958

April also brings the first eclipse of 1958, but it will not be visible in any part of North America, except Alaska. This happens on April 18, when the new moon will come directly between earth and sun. However, the moon will be far enough away that it will appear slightly smaller than the sun and thus will not completely cover it.

Even where the solar eclipse is at its height, along a path that starts in the Indian Ocean, southwest of India, crosses Burma, Thailand, Viet Nam and Formosa and ends in the Pacific Ocean southeast of Japan, one would see a ring of the bright solar surface around the dark disc of the moon. Thus it is called an annular eclipse, since "annulus" is Latin for ring. Along the first part of this path it will be April 19 as the eclipse occurs. But the path crosses the International Date Line where it is still the 18th, so the event may be said to end the day before it begins!

Over a larger area, covering all of Asia except the northwestern part, the Indian Ocean, Indonesia and the western Pacific, as well as Alaska, there will be a partial eclipse, with the moon hiding a part of the sun. By our time reckoning, the eclipse occurs during the night of the 18th.

Celestial Time Table for April

April EST

3	4:00 p.m.	Moon nearest, distance 221,800 miles.
	10:45 p.m.	Full moon.
4	10:39 p.m.	Moon passes Jupiter.
8	6:00 p.m.	Venus farthest west of sun.
	9:10 p.m.	Moon passes Saturn.
10	6:50 p.m.	Moon in last quarter.
13	7:53 a.m.	Moon passes Mars.
16	2:00 p.m.	Mercury and sun in same direction.
	6:00 p.m.	Moon farthest, distance 252,500 miles.
17	2:00 a.m.	Jupiter in opposite direction from sun and nearest earth, distance 413,000,000 miles.
18	10:23 p.m.	New moon—annular eclipse of sun.
23	9:00 p.m.	Neptune in opposite direction from sun and nearest earth, distance 2,724,000,000 miles.
26	4:36 p.m.	Moon in first quarter.

Subtract one hour for GST, two hours for MST, and three for PST.

Science News Letter, March 22, 1958

No Case (Information Only)

17 April 1958
Porto Alegre, Brazil

April 17, 1958: Porto Alegre, Brazil:

Press report says "Newspapers and radio stations of Rio Grande do Sul state that three flying saucers landed about 65 km. north of Santa Maria City. Two objects flew on but the third remained, emitting—
said the report—an unbearable heat." The Brazilian Air Force declared they had no official confirmation.

BOLIDE of 1953 APRIL 20

A.M.S. No. 2332

On this date at 8:21 ± 3 p.m. U.S.T., a very brilliant bolide was seen from Georgia and states to the north. Although numerous newspaper accounts were available which named observers and effects were made to contact several, we have only four complete reports. A few in the papers were confirmatory, but if some of the others were correct, there must have been a second or bi object visible to the south at the same hour.

Several almost useless reports by aviators. Why aviators practically never give coordinates of the bodies they see is a mystery! Our results are based on reports from: B. Rauschenberg, Atlanta, Ga., W. F. Appleton at Niota, Tenn., and A. C. Griffith from near Flintstone, Ga. A fourth from Rome, Ga. approximately confirms the azimuth of the end point. A fifth from R. P. Deckler at Boarding, Tenn., gives direction of the path and other data. The end point is very well determined but the beginning point is much more uncertain. From Atlanta it was seen as

-4 magnitude before bursting. The latter is described as "blinding" even at great distance. Deckler reported having heard sounds 1½ to 2 minutes after explosion, but he was much nearer this point than other observers. No one else reported hearing anything. The estimates of duration are complicated by some observers seeing but part of the path. These estimates are too discordant to have any meaning, but there is reason to believe that the observed velocity was moderate. The fact that Weather Bureau stations, as a rule, keep no records of fireballs reported to them—the logical places casual observers would contact—in this case greatly hampered our investigation, as no information could be obtained from them. The usual data follow, but no orbit is calculated due to uncertainty about the beginning point. The derived radiant is so far from that of the contemporary Lyrid shower that it seems unlikely that any errors of observation could permit this bolide to be a Lyrid.

Date	1953 April 20.56 C.M.T.
Local time at end point	144°
Began over	$\lambda = 82^\circ 45'$, $\phi = 36^\circ 46'$ at 149 km
Ended over	$\lambda = 82^\circ 45'$, $\phi = 34^\circ 43'$ at 25 ± 3 km
Projected length of path	313 km
Length of path	335 km
Observed velocity	??
Radiant uncorrected	$\alpha = 220^\circ$, $h = 22^\circ 4$
Zenith correction parabolic	$-5^\circ .9$
Radiant corrected	$\alpha = 220^\circ$, $h = 16^\circ 5$ $\alpha = 251^\circ$, $\delta = +50^\circ$

~1060 furnished several bright
R. Hawkins, Harvard
College Observatory, kindly sent me
reports on two observed from the
S.E. corner of Saskatchewan, Canada,
observed respectively on Feb. 13 and
14. The first came at 10:40 a.m., C.S.T.
and there are 5 reports. The two stations
were McTaggart and Weyburn. The lack
of coordinates for either beginning or

end points makes it impossible to
compute a path. It was very bright, in
the south and went S.E. starting at an
elevation of 40° and sloping down at
an angle of 30°. It lasted 3 seconds (estim.).
was "pink-white" in color
(one observer). It burst but ... was
not heard. Reception at a local broad-
casting station was interfered with for a
few seconds. Same observer says it "left

smoke train in air". Others do not
mention this. On Feb. 14 the bodies
came at 11:32 p.m., C.S.T. It was
bright, pink-white in color and from Weyburn
was seen to S.E. Its duration was
about 10 sec. and a sound of boom. Several
other bodies were seen but did not reach the horizon.
There were 3 reports from 2 stations. It
is a great pity that the lack of elevations
and altitudes of the beginning and end
points prevents calculation of the paths
of these brilliant bodies. They must also
have been seen from North Dakota, but
no reports came from that state.

As an example of an unusual
phenomenon which may have been a
"procession" if the 6 minutes
"even" refers to the interval
the first body was seen until
the last was seen and out of sight (if however
it the bodies were in one group
and took 6 minutes to cross the sky,
meteors are ruled out), I quote from a

report sent to the Hydrographic Office.
—Captain J. Verwoerd, Master of the
Netherlands M. V. Posidon, reported as
follows: "At 0030 G.M.T. S.E. 12, 1:40,
about 10 mil. a south of Aruba, Curacao,
several bright objects were observed.
They were first sighted bearing 190°
altitude 20°. They were all travelling
at the same speed and in one line. The
first object which was the largest had a
small tail and the other pieces were
much brighter. These objects passed
through bearing 60° altitude 30° and
disappeared bearing 30° altitude 5°.
They were visible about 6 minutes.
Weather clear." At the same time a
very unusual body passed over Caracas,
Venezuela, going in the same direction.

Though many reports are at hand, no
path can be computed so far, and its
description does not fit the above. Yet
it seems there must be a connection.

No Case (Information Only)

20 April 1958
Burlington, Vermont

UNUSUAL INCIDENT IN VERMONT: A dazzling ball of fire suspended from a parachute, a red flare, blinding signal lights, and a burned-out area in the woods were the ingredients of a puzzling mystery in Burlington, Vt. last April 20th. Most baffled of all was [REDACTED] [REDACTED] who witnessed the entire display. The strange series of events began about 9:30 p.m., when a fireball, at first thought to be a meteor, flared brilliantly in the sky near Burlington. Hundreds of people saw it, but they did not see what [REDACTED] saw - a parachute falling earthward from the object. It landed in a nearby patch of woods; Cote called the police, and tried to guide them to the area. A swamp blocked the way, but they could see two blinding white lights, like flashlight signals, at the spot they were trying to approach. A red flare was also seen coming from the same place. The next day they succeeded in reaching the area, where they found a scorched spot in the woods, but no signs of life or the parachute. Later [REDACTED] was visited by two Air Force men who cautioned him not to talk too much about the event. An Air Force helicopter was later seen scouting the area, but no statement was issued as to what it found. A report on the incident was sent to Washington.

No Case (Information Only)

21 April 1958
Bethlehem, Georgia

UFO REPORT: A large incendiary object impacted on a Georgia farm. On the night of April 21st, a brightly burning object resembling a comet or meteor fell near Bethlehem, Georgia, showering sparks as it fell. It slightly injured a farmer named Fred Fuller, who apparently had a piece of the object land on his head. No visible remains of the UFO were found, but it was noted the next day that a number of bushes in the area were scorched. The farmer, who lives alone, also states that he has felt badly ever since the incident, and that three dogs in the neighborhood died in the two days following the apparition. Thus far his crops have shown no ill effects, however.

No Case (Information Only)

22 April 1958
Ambrosia Lake, New Mexico

1958
NEW MEXICO MINE GUARDS ARE SAY-
ING: [REDACTED] and [REDACTED], security
guards in New Mexico's Ambrosia Lake urani-
um area, said last April 22nd that they
spent several hours watching a UFO before
daybreak on the previous Saturday morning.
The unidentified object was first spotted
on a mesa to the northwest of them, and had
the appearance of a searchlight or head-
light. The light then "bounced what appear-
ed to be a few feet and shot straight up in
the air, glowing brighter and brighter." It
was so bright that it made tears come to
their eyes, said Tisbin. A 10 or 20-foot-
long silvery-white streamer shot out from
the light, and later changed color several
times, from white to red to blue. - The men
were described by their boss as "highly
trained, reliable observers."

24 April 1958
Bad Axe, Michigan

BAD AXE, MICH., APRIL 24--(UPI)--HURON COUNTY'S ELECTRIC BLUE MAN FROM OUTER SPACE HAS BEEN CAPTURED. SIGHTINGS OF THE MAN-MONSTER, REPORTED AS RANGING IN HEIGHT FROM TWO TO SIX-AND-A-HALF FEET, HAD FRIGHTENED MANY RESIDENTS OF THIS COUNTY AT THE TIP OF MICHIGAN'S THUMB FOR THE LAST 30 DAYS. MOTORISTS TOLD HOW THE MAN, DRESSED IN A GLOWING BLUE SUIT AND A PLASTIC SPACE HELMET WITH FLASHING LIGHTS, LEAPED FROM A DITCH AS THEY APPROACHED ON BACK COUNTRY ROADS AND DANCED IN FRONT OF THEIR HEADLIGHTS.

MOTHERS IN ISOLATED COUNTRY HOMES REPORTED SEEING THE APPARITION THROUGH THEIR WINDOWS AT NIGHT AND "IT GOT SO THEY WOULDN'T LET THEIR KIDS OUT AT NIGHT," SHERIFF MERRITT MCBRIDE SAID. THE APPARITION WAS REAL. THOUGH NO SPACE MAN, HE WAS ONE OF THREE YOUNG BAD AXE EARTHLINGS WHO WERE ARRESTED BY SHERIFFS OFFICERS AND STATE POLICE HERE LAST NIGHT. JERRY SPRAGUE, 22, DONALD WEISS, 23, AND LEROY SCHULTZ, 23, CONFESSED SPRAGUE WAS THE ELECTRIC

SPRAGUE TOLD PROSECUTOR JAMES UMPHREY HE WAS THE ONLY ONE TO WEAR THE SUIT BECAUSE THE LONG UNDERWEAR, WHICH THEY HAD SOAKED IN LUMINOUS BLUE PAINT, WAS HIS AND HE WAS THE ONLY ONE IT FITTED. BESIDES THE LONG JOHNS, THE "SPACE SUIT" WAS MADE UP OF A BEDSHEET-CAPE, ALSO BLUE, A BLUE MASK AND A FOOTBALL HELMET FITTED WITH BATTERY-POWERED FLASHLIGHT BULBS, OVER WHICH A BUBBLE PLASTIC SPACE HELMET WAS WORN.

SPRAGUE'S FRIENDS WOULD DRIVE HIM TO A LONELY ROAD AND HE WOULD HIDE UNTIL A CAR APPEARED. AFTER DOING HIS DANCE, HE "COLLAPSED" AT THE ROADSIDE AS THE CAR PAST AND THE TRIO WOULD DRIVE AWAY BEFORE THE MOTORIST COULD INVESTIGATE--IF THE MOTORIST STOPPED AT ALL, AND

UMPHREY SAID NO ONE REPORTED THE BLUE MAN UNTIL ELKTON SCHOOL SUPERINTENDENT ROBERT DAVIS LD OF SEEING HIM DANCE IN FRONT OF HIS SCHOOL BUS.

MCBRIDE SAID OTHER PERSONS HAD HESITATED REPORTING THE SIGHT BECAUSE THEY FEARED MAKING FOOLS OF THEMSELVES. BUT WHEN DAVIS BROKE THE ICE THE REPORTS POURED IN.

UMPHREY HAS TEMPORARILY LET THE TRIO OFF WITH A GOOD TALKING TO, BUT HE STILL HASN'T DECIDED IF HE WON'T SEEK A WARRANT ANYWAY. THE ONLY TROUBLE IS, HE SAID, "WHAT'LL I CHARGE THEM WITH?"

IN 9TH PGH ABV., MAKE IT- X X-X DAVIS TOLD OF SEEING ETC.

RTG50P.

No Case (Information Only)

24 April 1958
Bad Axe, Michigan

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RTG50P..

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REPORTED AS RANGING IN HEIGHT FROM
RIGHTENED MANY RESIDENTS OF THIS COUNTY
OR THE LAST 30 DAYS.
RESSED IN A GLOWING BLUE
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COUNTRY ROADS AND DANCED IN FRONT OF
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RTG50P..

No Case (Information Only)

29 April 1958
St. Paul, Minnesota

April 29, 1958; St. Paul, Minnesota:

A UFO similar to the one reported in the east on April 21 was sighted by control tower operators at Wold - Chamberlain Airport and by other observers. The CAA men said the UFO did not resemble a meteor or any other known object but that it moved west to east at high speed on an even path without climbing or descending. It was described as emitting sparks from its glowing nose before its abrupt disappearance. The UFO also was seen by NICAP member H. T. Sherman, insurance underwriter and astronomer, who reported it to an Air Force Captain Nueman at Wold - Chamberlain. The captain first suggested Venus, which Sherman as an astronomer quickly ruled out. The captain then suggested a meteor.

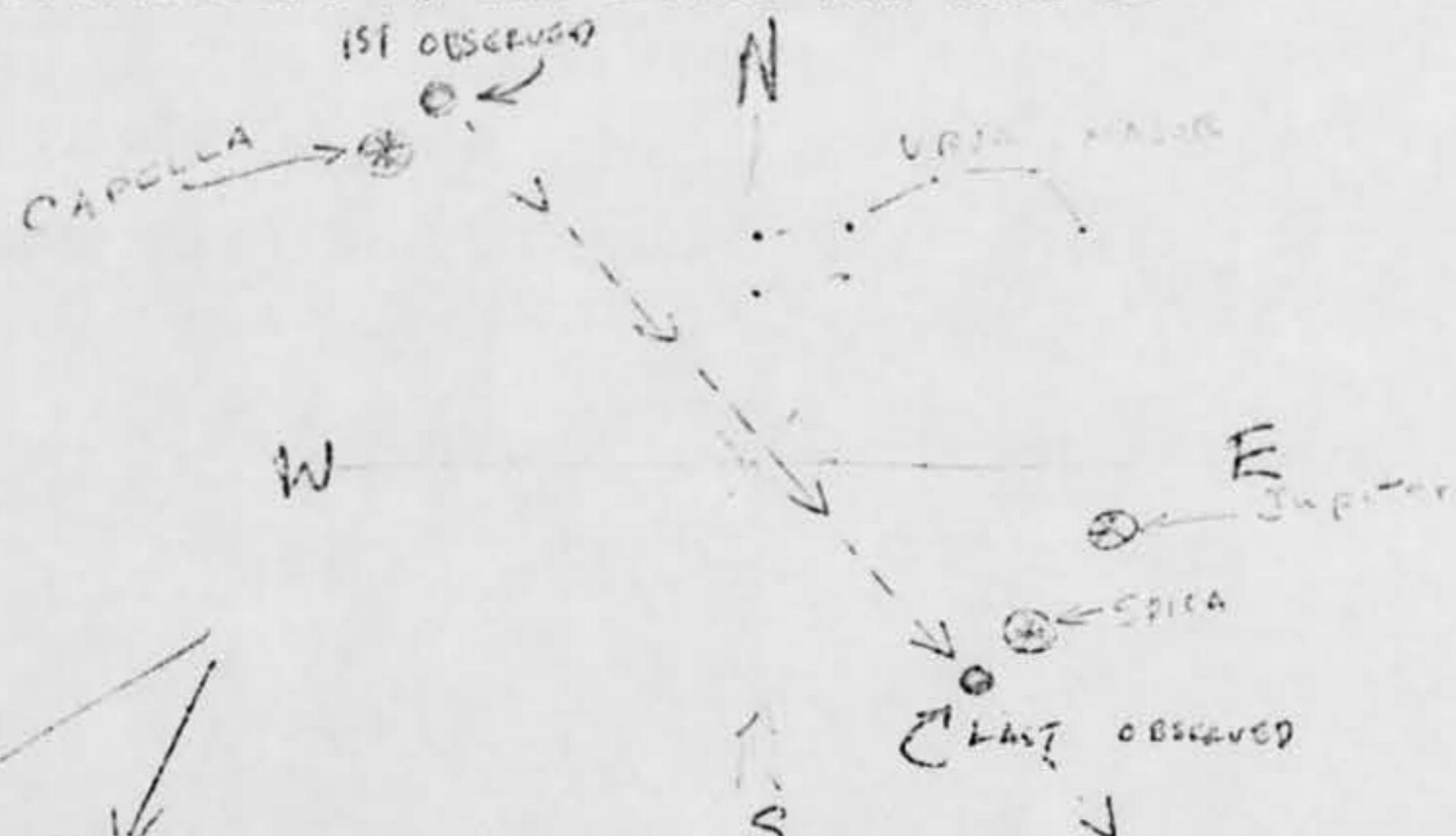
"Too slow," stated Mr. Sherman. "A parallel path and the UFO's appearance rule that out."

Finally Captain Nueman suggested a new anti-collision light on a plane, but Sherman pointed out these items:

- ① When the light went out no plane was visible in the sky which at 9 p.m. was still fairly light.
- ② He would have heard any aircraft.
- ③ No pilot in his right mind would approach a field with such heavy traffic at such high speed and suddenly at low altitude turn out all lights.

The Air Force captain had no other suggestions and the sighting was officially recorded.

TO BE OBSERVED, THE OTHER'S ATTENTION WAS CAUGHT BY THE MOTION OF THE OBJECT THROUGH THE SKY. 2. OBJECT FIRST SIGHTED AT ESTIMATED ELEVATION OF 32 DEGREES AND A THU AZIMUTH OF APPROXIMATELY 330 DEGREES. 3. OBJECT DISAPPEARED IN CLOUD DECK AT AN ESTIMATED ELEVATION OF APPROXIMATELY 15 TO 20 DEGREES ABOVE THE SOUTHEAST HORIZON. 4. FLIGHT PATH ORBIT-LIKE IN NATURE. OBJECT FIRST APPEARED IN NORTHWEST SKY TRAVELING SMOOTHLY ON ORBIT-LIKE PATH THROUGH ITS ZENITH AT AN ESTIMATED ALTITUDE OF APPROXIMATELY 40 TO 45 DEGREES. OBJECT CONTINUED SMOOTHLY IN THE PLANE OR ORBIT AND PASSED VERY CLOSELY TO THE STAR SPICA AND THE PLANET JUPITER. THE OBJECT DISAPPEARED TO THE SOUTHEAST. DURING THE ENTIRE PERIOD, FLIGHT PATH WAS APPARENTLY SMOOTH AND UNDISTRUBED. 5. THE OBJECT WAS VISIBLE



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FOR APPROXIMATELY THREE TO FOUR MINUTES. THE OBSERVERS WERE NOT ESPECIALLY CONSCIOUS OF THE TIME LAPSE WHILE OBSERVING BUT ESTIMATED THAT THEY OBSERVED THE OBJECT BY THE NAKED EYE FOR AT LEAST TWO MINUTES AND FOLLOWED THE OBJECT BY TELESCOPE FOR APPROXIMATELY ONE MINUTE. AT THE TIME OBJECT DISAPPEARED, OBSERVATION HAD BEEN DISCONTINUED BY TELESCOPE AND WAS BEING FOLLOWED WITH THE NAKED EYE. C. MANNER OF OBSERVATION. TWO OBSERVERS WERE INVOLVED AND OBSERVATIONS WERE BOTH BY NAKED EYE AND TELESCOPE. THE TELESCOPE WAS A SIX-INCH REFLECTOR TYPE WITH A MAGNIFICATION OF APPROXIMATELY 70 DIAMETERS. ONE OBSERVER TRACKED THE OBJECT WITH THE FINDER SCOPE AND THE OTHER CHECKED IT THROUGH THE MAIN LENSES SYSTEM. D. TIME AND DATE OF SIGHT. 1. OBJECT FIRST SIGHTED SHORTLY AFTER 2000 MST 30 APRIL 1958. OBJECT REACHED ZENITH APPROXIMATELY 2006 MST. 2. LIGHT CONDITIONS. SIGHTING WAS MADE APPROXIMATELY ONE HOUR AFTER SUNSET. ALL BUT THE FAINTEST STARS WERE VISIBLE AT TIME OF SIGHT. E. LOCATION OF OBSERVERS. OBSERVERS WERE LOCATED AT A POSITION APPROXIMATELY ONE NAUTICAL MILE SOUTH SOUTHWEST OF LOWRY AFB, DENVER COLORADO. F. IDENTIFICATION INFORMATION ON OBSERVERS. 1. CAPTAIN W.H. GIBSON, USAF, DEPARTMENT OF FLYING TRAINING, USAF ACADEMY, DENVER, COLORADO. CAPTAIN GIBSON IS A NAVIGATION INSTRUCTOR

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"Too slow," stated Mr. Sherman. "A parallel path and the UFO's appearance rule that out."

Finally Captain Nueman suggested a new anti-collision light on a plane, but Sherman pointed out these items:

- When the light went out no plane was visible in the sky which at 9 p.m. was still fairly light.
- He would have heard any aircraft.
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The Air Force captain had no other suggestions and the sighting was officially recorded.

MAY 1958 SIGHTINGS

<u>DATE</u>	<u>LOCATION</u>	<u>OBSERVER</u>	<u>EVALUATION</u>
2	- Sapin	Military (Bryant)	Satellite
3	- Flagstaff, Arizona	Military Air Vis/RAD	Balloon
4	- Uruguay	CIOVI	Insufficient Data
7	- Spring City, Tennessee	[REDACTED]	Astro (SIRIUS)
7	- Fresno, San Francisco, California	Military	Astro (VENUS & ARCTURUS)
9	- Bohol Island, Philippines	Military Air/Vis	UNIDENTIFIED
9	- Marietta, Ohio	[REDACTED]	Other (UNRELIABLE REPORT)
10	- Colt's Neck, New Jersey	[REDACTED]	Balloon
11	- Saigon, Viet Nam	Military	Astro (METEOR)
11	- Chillicothe, Missouri	Military Air/Vis	Balloon
12	- Canton, Ohio	[REDACTED]	Balloon
12	- Cheyenne, Wyoming	Multi (Stratton)	Aircraft
13	- Wauwatosa, Wisconsin	[REDACTED]	Aircraft
13-14	- Willis, Virginia	[REDACTED] (PHYSICAL S)	Other (CHAFF)
14	- Yuma, Arizona	[REDACTED]	Insufficient Data
14	- Farmington, New Mexico	[REDACTED]	Astro (METEOR)
15	- Caracas, Venezuela	Venezuela Mil Air/Vis	Insufficient Data
15	- Ft Bragg, North Carolina	Military Air/Vis, Beck	Satellite
16	- Tuscaloosa, Alabama	[REDACTED]	Astro (METEOR)
16	- Parma, Ohio	[REDACTED]	Insufficient Data
16-17	- Drummond, Wisconsin	[REDACTED] (PHOTO)	Astro (STAR)
17	- Mindanao, Philippines	[REDACTED]	Astro (METEOR)
17	- Red Springs, North Carolina	[REDACTED]	Aircraft (REFUELING OPR)
17	- 23 Mi SE of Belle Glade, Florida	[REDACTED]	Insufficient Data
18	- Albuquerque, New Mexico	[REDACTED]	Astro (METEOR)
20	- Canton, Ohio	[REDACTED]	Astro (METEOR)
20	- Mount Prospect, Illinois	[REDACTED]	Other (MIRAGE)
21	- Frenchman's Bayou, Arkansas	[REDACTED] (PHYSICAL S)	Other (ROCK)
22	- S of Nogales, Arizona	[REDACTED]	Astro (METEOR)
23-24	- National City, California	[REDACTED]	Insufficient Data
24	- San Diego, California	[REDACTED]	Balloon
25	- Uruguay	CIOVI	Insufficient Data
26	- Hubbard, Ohio	[REDACTED]	Aircraft
27	- Denver, Colorado	[REDACTED]	Astro (METEOR)
27-28	- Nuncia, Michigan	[REDACTED]	Insufficient Data
28	- Templehof, Germany	Military RADAR	Balloon
29	- Cockburn Harbor, Caribbean	[REDACTED]	Insufficient Data
29	- N of Puerto Rico	Eastern Airlines	Astro (METEOR)
29	- Trenton, New Jersey	[REDACTED] (PHOTO)	Other (PHOTO FLAW)
30	- W of North Africa (Atlantic)	U.S. Coast Guard	Insufficient Data

ADDITIONAL REPORTED SIGHTINGS (NOT CASES)

<u>DATE</u>	<u>LOCATION</u>	<u>SOURCE</u>	<u>EVALUATION</u>
May 1958	- Sutton, W. Va.	Mag Story	
May 1-7	- Universe	Science News Ltr	
5	- Soviet Earth Satellite #3	Orbital Plane	
8	- Rabat, Morocco	Satellite Crossings	
16	- Montevideo, Uruguay	Newsclipping	
27	- Tarpon Springs, Florida	Newsclipping	
	- New England	Newsclipping	
	- Biggleswade, England	Newsclipping	

RJWFDN/COMDR 34 ADIV (DEF)

RJEDSO/COMDR ATIC

RJEPHQ/OFFICE OF INFORMATION SERVICES HQ USAF

RJEPHQ/ AIR INTELLIGENCE HQ USAF

BT

UNCLAS FROM COCFT 8894. UFO. THIS MESSAGE IS FORWARDED IN COMPLIANCE WITH AFR 200-2. A. DESCRIPTION OF OBJECT. 1. SHAPE. FROM APPEARANCE OF ITS ORBIT, OBJECT WOULD SEEM TO BE A SATELLITE-TYPE VEHICLE. OBJECT WAS EXAMINED THROUGH A SIX POWER TELESCOPE AND APPEARED IN TWO PARTS OR AT LEAST TWO SECTIONS OF DIFFERING REFLECTIVITY. LEADING SECTION WAS OF A BRIGHTNESS COMPARABLE TO THAT OF A THIRD OR FOURTH MAGNITUDE STAR. THE TRAILING PART WAS MUCH BRIGHTER AND IN THE ORDER OF A SECOND MAGNITUDE STAR. THERE WAS NO APPARENT TUMBLING MOTION. 2. SIZE. IMPOSSIBLE TO ESTIMATE SIZE BECAUSE OF APPARENT GREAT DISTANCE TO THE OBJECT. JUDGING BY REFLECTIVITY, OBJECT MUST BE OF A SIZE COMPARABLE TO OR LARGER THAN SPUTNIK II.

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COLOR. THE OBJECT WAS A REDDISH FAIR TINT. 4. NUMBER. ONLY ONE OBJECT SIGHTED, HOWEVER, SEEMED TO BE IN TWO PARTS. 5. FORMATION.

NOT APPLICABLE. 6. DISCERNIBLE FEATURES OR DETAIL AS EXPLAINED ABOVE. 7. TAIL, TRAIL OR EXHAUST. NONE OBSERVED. 8. SOUND. NONE OBSERVED. 9. OTHER PERTINENT OR UNUSUAL FEATURES. NONE.

B. 1. THE TWO OBSERVERS AT THE TIME OF THE SIGHTING WERE USING A SIX- INCH REFLECTOR TYPE AMATEUR TELESCOPE FOR CELESTIAL OBSERVATIONS. WHILE ONE OBSERVER WAS ALIGNING THE SCOPE ON A STAR TO BE OBSERVED, THE OTHER'S ATTENTION WAS CAUGHT BY THE MOTION OF THE OBJECT THROUGH THE SKY. 2. OBJECT FIRST SIGHTED AT ESTIMATED ELEVATION OF 30 DEGREES AND A TRUE AZIMUTH OF APPROXIMATELY 330 DEGREES. 3. OBJECT DISAPPEARED IN CLOUD DECK AT AN ESTIMATED ELEVATION OF APPROXIMATELY 10 TO 20 DEGREES ABOVE THE SOUTHEAST HORIZON. 4. FLIGHT PATH ORBIT-LIKE IN NATURE. OBJECT FIRST APPEARED IN NORTHWEST SKY TRAVELING SMOOTHLY ON ORBIT-LIKE PATH THROUGH ITS ZENITH AT AN ESTIMATED ALTITUDE OF APPROXIMATELY 40 TO 45 DEGREES.

You determine?

Printed on 07/20/1967 at 090734
SQG767 YDB712 WYC673 WMP034

AM4044

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pick up
Coy

PP RJWFDN RJEDDN RJEDSQ RJEHQ

DE RJWFAM 29

P 012345Z

FM SUP TUSAFA DENVER COLO

2454
2453
4452
EB

TO RJEDDN/COMDR ADC

RJWFDN/COMDR 34 ADIV (DEF)

RJEDSQ/COMDR ATIC

RJEHQ/OFFICE OF INFORMATION SERVICES HQ USAF

RJEHQ/ AIR INTELLIGENCE HQ USAF

BT

UNCLAS FROM COCFT 8894. UFO. THIS MESSAGE IS FORWARDED IN COMPLIANCE
WITH AFR 200-2. A. DESCRIPTION OF OBJECT. 1. SHAPE. FROM APPEARANCE
OF ITS ORBIT, OBJECT WOULD SEEM TO BE A SATELLITE-TYPE VEHICLE.
OBJECT WAS EXAMINED THROUGH A SIX POWER TELESCOPE AND APPEARED
IN TWO PARTS OR AT LEAST TWO SECTIONS OF DIFFERING REFLECTIVITY.
LEADING SECTION WAS OF A BRIGHTNESS COMPARABLE TO THAT OF A THIRD
OR FOURTH MAGNITUDE STAR. THE TRAILING PART WAS MUCH BRIGHTER
AND IN THE ORDER OF A SECOND MAGNITUDE STAR. THERE WAS NO APPARENT
TUMBLING MOTION. 2. SIZE. IMPOSSIBLE TO ESTIMATE SIZE BECAUSE OF
APPARENT GREAT DISTANCE TO THE OBJECT. JUDGING BY REFLECTIVITY,
OBJECT MUST BE OF A SIZE COMPARABLE TO OR LARGER THAN SPUTNIK II.

How determined?

Date: 30 April 58

Time of sighting: 2000 to 2006 Mountain Standard Time
(0400 - 0406 UT), May 28

Venus - 356^x
Mer - 335^x
Jup - 204^x
Mars - 21^x

2000 - 164^x

2006 - 164^x

2000 - 164^x

PAGE FIVE R.JWFAM 29

CONTACTED MR. [REDACTED], HEAD OF THE DENVER MOON WATCH TEAM. MR. [REDACTED] IN TURN CONTACTED THE SMITHSONIAN INSTITUTE IN ORDER TO DETERMINE IF ANY SIGHTINGS HAD BEEN MADE OF THIS SAME VEHICLE. SUBSEQUENT TO THIS AND UP TO A TIME SOME 13 HOURS AFTER THE SIGHTING, NO CONFIRMATION OF SUCH A VEHICLE WAS RECEIVED FROM SMITHSONIAN. IT IS UNDERSTOOD THAT SMITHSONIAN ESTABLISHED A MOON WATCH ALERT SHORTLY AFTER THE REPORT WAS RECEIVED. J. AIR ACTIVITY AT THE TIME OF SIGHTING. THE ONLY ACTIVITY OBSERVED AT OR ABOUT THE TIME OF THE SIGHTING WAS A B-52 OR B-47 AIRCRAFT AT EXTREMELY HIGH ALTITUDES. IT EXECUTED A PRACTICE BOMB RUN ON DENVER BOMB PLOT. THIS OCCURRED 25 OR 30 MINUTES BEFORE THE ACTUAL UFO SIGHTING. AT THE TIME OF THE SIGHTING NO FLYING AIRCRAFT WERE OBSERVED IN THE DENVER AREA BY THE TWO OBSERVERS. K. THE OFFICERS SUBMITTING REPORT HAVE DISCUSSED OBSERVATIONS WITH SUPERVISORY PERSONNEL AND DIRECTOR OF FLYING TRAINING, HEADQUARTERS, USAF ACADEMY. PRELIMINARY ANALYSIS SUGGEST POSSIBLE UNANNOUNCED SATELLITE LAUNCHING. L. EXISTENCE OF PHYSICAL EVIDENCE. UNAVAILABILITY OF CAMERA EQUIPMENT AND SHORT TIME INVOLVED IN TRACKING OBJECT PRECLUDED OBTAINING PHYSICAL EVIDENCE. SIGNED FLOYD C. ETHRIDGE MAJOR, USAF CHIEF, NAV TNG DIV.

BT

32/9 1492 MAY R.JWFAM

Believe it or not
Saw the same getting
into orbit to the same
point "up the Hill"
for our movie "The H-1NEKS"
Put this in file
to review later
for review
for review
NINN

Hardly!!! over the smallst
satellite was released as
soon as it got into orbit,
either visually or by radio
transmission. Whether U.S. or USSR,
a successful orbit would be
announced the and immediately
descend soon after.

G76

20 May 1962 - Long Range Recon File
Information from Dr. [REDACTED]

Note: Place

SMITHSONIAN INSTITUTION
ASTROPHYSICAL OBSERVATORY

SECTION OF UPPER ATMOSPHERE STUDIES
IGY OPTICAL SATELLITE TRACKING PROGRAM
60 GARDEN STREET
CAMBRIDGE 30, MASSACHUSETTS

May 23, 1958

Captain George T. Gregory
Hqtrs, Air Technical Intelligence Center
Box 9307
Wright-Patterson Air Force Base, Ohio

Dear Captain:

I now have had a chance to look through all the reports you sent, and the one concerning the "satellite-type sighting" from Denver interests me very much and I am giving it the full treatment. It is clear that this could not have been any of the American satellites, not only because of the excessive brightness, but because no American satellite at present could be seen approaching from the northwest at the latitude of Denver. On April 30th there were no known Russian Sputnik's up, but even had there been it is almost inconceivable that objects that bright would escape detection by our Moonwatch teams. This is a corker; so much so, that I wish I had the time and the opportunity to talk with these two officers. It could be that in casual conversation some clue might be obtained which is not apparent in their report.

I had an experience the other night which may bear on this. I had been instructing my young daughter in figuring sidereal time, and we had gone out on the lawn to check our calculations when there came along a sputnik-like object---correct brightness, correct speed, correct color, and I almost stood aghast. There was no sound. A few minutes later another such object came through in another direction, and then a few minutes still another. On the third one I was able to detect over ambient noises the sound of jet motors. Lights were not blinking. If the other object had not gone through I might honestly be puzzled to this day as to whether I had seen an unknown satellite. I didn't know that jets ever carried such lights.

It is almost inconceivable two such experienced officers could have made the mistake I had first made, but strange things do happen. In the meantime, I am having this observation checked against all other "unknown sputnik's" that our teams from time to time reported.

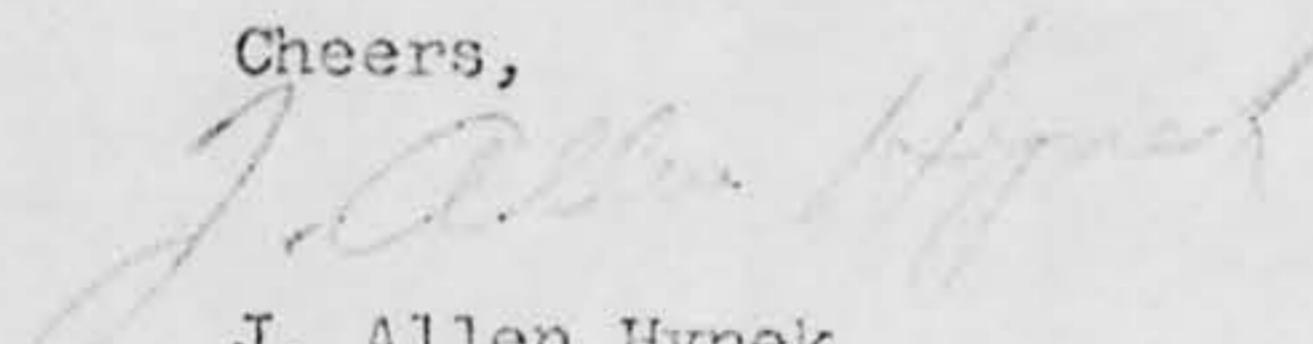
As to the other cases, which I am returning (I will return the Denver case very soon), we certainly seem to have a fine bunch of meteor observations--five of them. Two others remain: one, the object that was seen the same time on two nights just before sunrise

(period of morning twilight had already begun). Vega was, as you say, near the point of sighting but it seems to me that it was somewhat higher than 60°. There was of course a very fine spectacular object in the sky at that time but, unfortunately, in the southeastern sky. The planet Venus was at its brightest in the pre-sunrise sky, and I know from past experience how easily it can be mistaken for an unknown object. My only reaction is to question the stated position and to consider the possibility that it was Venus.

The case of the "daylight meteor" is greatly ambiguous. While a daylight fireball cannot be ruled out, I would myself favor the accidental release of some object from an aircraft. However, much hinges on the statement "orange flame". If it really was flaming then it looks as though we must accredit this to a daylight meteor. If the light was simply a bright reflection of sunlight, then we have the other possibility. In either case, there is nothing hostile, and I say to this "insufficient information to be able to distinguish between daylight meteor or object falling from aircraft". I don't think it is worthwhile to pursue this one, although I think if I could talk to the chap a better analysis might be made. It just occurs to me that perhaps the object might have been a burst weather or cosmic ray balloon, with the reflection from the trailing material accounting for the "tail four times the diameter of object". In fact, I think this is a distinct possibility since it occurred in the neighborhood of the municipal airport from which, I suppose, balloons are launched. The time of observation was 4:00 p.m., their time which, I believe, is about the time of such launchings. So, three possibilities: daylight meteor---part of aircraft---bursted balloon. All harmless but, I now tend to prefer the latter.

I am looking forward to visiting you in your new quarters---I hope in early June.

Cheers,



J. Allen Hynek

JAH:lc

Encls.

ASTRONOMY

Jupiter Now Most Prominent

April is the month that will see the planet Jupiter nearest to the earth, in addition to bringing the first solar eclipse of the year.

By JAMES STOKLEY

► IN A DIRECTION from the earth directly opposite to that of the sun on April 17, the giant planet Jupiter will make its closest approach of the year, at a distance of 413,000,000 miles. It will then be most prominent, visible all night with a brightness of minus two on the astronomical magnitude scale.

Jupiter is shown on the accompanying maps, which depict the sky as it appears about 10:00 p.m., your own kind of standard time, at the first of April, an hour earlier at the middle and two hours earlier at the end. It is toward the southeast, in Virgo, the virgin, just to the left of Spica, the brightest star in that constellation. Although Spica is among the 20 brightest stars in the sky (those of the first magnitude or brighter), Jupiter now surpasses it in brilliance by about 18 times.

High in the south, above and right of Virgo, you come to Leo, the lion, with another first-magnitude star. This is Regulus, which is in a group of six stars often called the "sickle," from its resemblance to that implement.

To the right of Leo is the rather faint constellation of Cancer, but next to that is the figure of Gemini, the twins. Here we find Pollux, also of magnitude one. Below Gemini is Canis Minor, the lesser dog, with Procyon, and below that stands the great dog Canis Major, with Sirius, the dog star. This is now so low that it is faint and relatively inconspicuous, quite different from the way it looked on midwinter evenings, when it was in the southern sky.

Orion is Faint

The same is true of Orion, to the west. Betelgeuse, the brightest star in this figure of the warrior, is shown; so are the three stars that mark his belt. However, Rigel, below the belt, has passed below the horizon. It may be seen earlier in the evening.

To the right of Orion is Taurus, the bull, in which we see Aldebaran. On account of its low altitude, and the consequent increased absorption of its light by the earth's atmosphere, it is represented by the symbol for a second-magnitude star, although it is really of the first. Above Taurus is Auriga, the charioteer, in which Capella shines.

High in the eastern sky, above and to the left of Jupiter, is the figure of Bootes, the bear-driver. Here we find Arcturus. Close to the northeastern horizon Vega, which is in Lyra, the lyre, is shown. Actually, of all the stars that can be seen from these latitudes, only Sirius surpasses Vega in brightness.

ness, but as it is seen here you might not think so. Later in the night, as it climbs higher in the sky, it will be seen at full brilliance, as it will in the evenings later in the year.

Saturn, now in the constellation of Ophiuchus, the serpent-bearer, appears about midnight above the southeastern horizon. Hours later, or about two and a half hours before sunrise, Mars appears, in Capricornus, the sea-goat. Mars, red in color, is a little fainter than Saturn, although both are of the first magnitude. About half an hour later Venus appears, brighter even than Jupiter. Mercury, which appeared in the evening sky at the end of March, may be glimpsed in the first day or so of April, but you will have to look to the western sky, near the horizon, after sunset and even before dusk has faded, if you want to see it.

On April 3, at 10:45 p.m. EST, the moon will be full. This full moon will have a special significance, for it is the paschal moon, the one that determines the date of Easter.

It is commonly stated that Easter is the first Sunday following the first full moon after the vernal equinox, or the beginning of our spring in the Northern Hemisphere. The vernal equinox occurred on March 20 at 10:06 p.m., EST, when the sun passed

over the equator. The next full moon is on April 3, so the following Sunday, April 6, is Easter. And from the date of Easter are determined the dates of certain other religious "movable feasts."

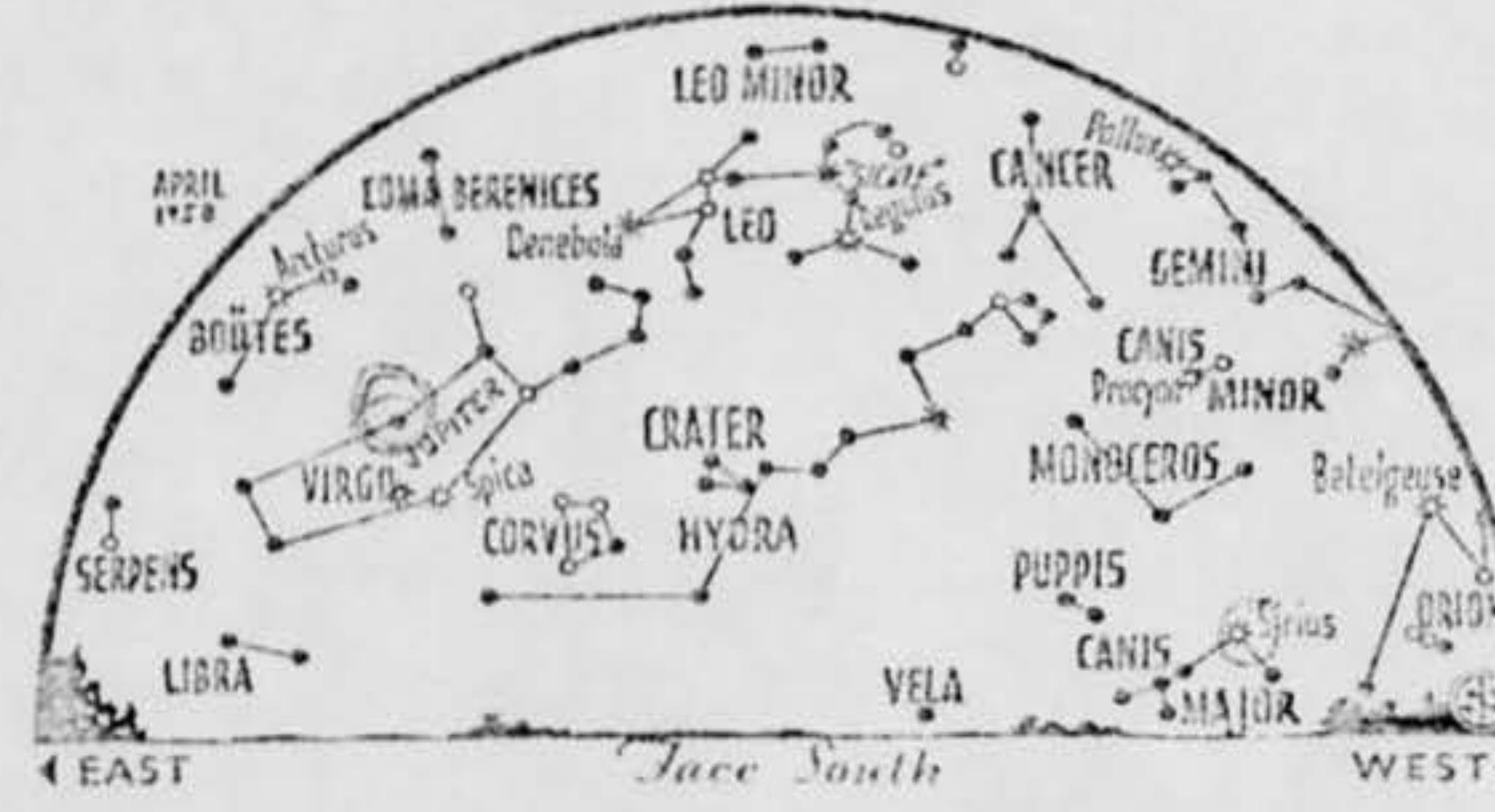
The Easter Moon

The Easter rule was set in 325 A.D. by the Council of Nicaea. Before that there were two principal factions in the early church with their own ideas as to when the festival should be celebrated.

The Crucifixion and Resurrection had taken place at the time of the Hebrew Passover, which begins on the 14th day of the month of Nisan in the Jewish calendar. Since each month in this calendar begins with the new moon, it is always full at the 14th. Hence when Christ arose from the dead it was a time of full moon and, also, it happened on a Sunday.

One group wanted to celebrate Easter always at the time of the full moon, but the others thought that the day of the week was important. They wanted it on Sunday, and the Nicene Council decided in their favor.

They fixed the rule that Easter should come on the Sunday following the 14th day of the moon when this came on or after March 21, which was the day of the equinox in 325. Actually, as this year, the equinox may occur on the 20th; sometimes it may come on the 22nd, while the full moon may not necessarily come on the 14th day of the lunar month. Thus, the rule



• SYMBOLS FOR STARS IN ORDER OF BRIGHTNESS